

Total No. of Printed Pages:02

SUBJECT CODE NO:- H-348
FACULTY OF SCIENCE AND TECHNOLOGY
T.E. (Civil) (Sem-I)
Building Planning and Design
[OLD]

[Time: Three Hours]

[Max. Marks:80]

Please check whether you have got the right question paper.

N.B.: 1) Question no 1 and 6 are compulsory.

2) Solve any two questions from no 2 to 5 and any one from question no. 7 and 8.

3) Figure to indicate the maximum marks.

Section -A

- | | | |
|-----|---|----------|
| Q.1 | Answer the following (any five) | 10 |
| | <ul style="list-style-type: none"> a) What is set back line? b) What is Semi-detached building? c) Enlist different types of building. d) Define Circulation. How it is achieved? e) List out different level in construction stage. f) Explain building bye law in short. g) What are the guidelines for orientation of different units of a residential? | |
| Q.2 | <ul style="list-style-type: none"> a) Explain the term grouping, prospect, privacy. b) Explain the C.B.R.I. Suggestion for obtaining optimum orientation. | 08
07 |
| Q.3 | <ul style="list-style-type: none"> a) Explain the building bye-laws with reference to <ul style="list-style-type: none"> i) Open space requirement ii) Height limitations iii) Plinth are regulations b) Explain the importance of lighting and ventilation as per building bye-laws. | 08
07 |
| Q.4 | <ul style="list-style-type: none"> a) Explain the factors affecting the selection of site. b) Explain in detail testing of drains and maintenance of drains. | 08
07 |
| Q.5 | <ul style="list-style-type: none"> a) Explain the term Contrast, Proportion and Scale. b) Explain the importance of principle of planning in planning of Residential Bungalow Plan. | 08
07 |

Section- B

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|-----|--|----|
| Q.6 | Plan and design a residential building for a family in a town using the following data. | 25 |
| | <ul style="list-style-type: none"> 1) Plot size 14m × 16m 2) Scale 1:50 3) Plinth Height - 1m 4) Required Components – Entrance Veranda, Living Room, Bed Room, Master Bed Room, Separate W.C. and Bath , Kitchen and Staircase. | |

Draw the following components.

- 1) Working Plan
- 2) Location and position of Column in Plan
- 3) Elevation
- 4) Section through staircase and W.C. + Bath
- 5) Schedule of opening
- 6) Area statement and Block plan calculation.

05
03
04
07
02
04

Q.7 By assuming suitable data and norms list out the requirements and draw a line plan of Health care building. 15

Q.8 a) How are the perspective projections classified? Mention the practical application of each type of perspective projection. 08
b) What is meant by Landscaping? Explain the necessity of it and enlist the type of Landscaping. 07